CLINICAL RECORD	AUTOPSY PROTOCOL A63-272 (JJH: ec)						
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INCAL DIAGNOSES (Additing species)	LIGHT STEEDER A	FIRCK, HC, USA	04 043 3	22)			
INICAL DIAGNOSES (ASSESSED ASSESSED)	DOM: PIERRY W	. stuckinglam		7			
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PATHOLOGICAL DIAGNOSES	A 1						
CAUSE OF DEATH: Gunshot	ound, head.			-			
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CLINICAL SUMMARY:

According to evailable information the deceased, President John F. Kennedy, was riding in an open car in a motorcade during an official visit to Dallas, Texas on 22 November 1963. The President was sitting in the right rear seat with Mrs. Kennedy seated on the same seat to his left. Sitting directly in front of the President was Governor John B. Connolly of Texas and directly in front of Mrs. Kennedy sat Mrs. Connolly. The vehicle was moving at a slow rate of speed down an incline into an underpass that leads to a freeway route to the Dallas Trade Mart wherethe President was to deliver an address.

Three shots were heard and the President fell forward bleeding from the head. (Governor Connolly was seriously wounded by the some gunfire.) According to newspaper reports ("Washington Post" November 23, 1963) Bob Jackson, a Dalles "Times Herald"Photographer, said he looked around as he heard the shots and saw a rifle barrel disappearing into a window on an upper floor of the nearby Texas School Book Depository Building.

Shortly following the wounding of the two men the car was driven to Parkland Hospital in Dallas. In the emergency room of that hospital the President was attended by Dr. Malcoln Perry. Telephone communication with Dr. Perry on November 23, 1963 develops the following information relative to the observations made by Dr. Perry and procedures performed there prior to death.

Dr. Perry noted the massive wound of the head and a second much smaller wound of the low anterior neck in approximately the midline. A tracheostomy was performed by extending the latter wound. At this point bloody air was noted bubbling from the wound and an injury to the right laterel wall of the traches was observed. Incisions were made in the upper anterior chest wall bilaterally to combat possible subcutaneous emphysems. Intrevenous infusions of blood and saline were begun and oxygen was administered. Despite these measures cardiac arrest occurred and closed chest cardiac massage failed to re-establish cardiac action. The President was pronounced dead approximately thirty to forty minutes after receiving his wounds.

The remains were transported via the Presidential plane to Washington, D.C. and subsequently to the Maval Medical School, National Mayal Medical Center, Bethesds, Maryland for postmorton examination.

GENERAL DESCRIPTION OF BODY:

The body is that of a muscular, welldeveloped and well nourished adult Caucasian male measuring 724 inches and weighing approximately 170 pounds. There is beginning rigor mortis, minimal dependent liver mortis of the dorsum, end early elgor mortis. The hair is reddish brown and abundant, the eyes are blue, the right pupil measuring 8 mm. in diameter, the left 4 mm. There is edems and ecchymosis of the inner canthus region

of the left cyclid measuring approximately 1.5 cm. in greatest dismeter. There is edema and ecchymosis diffusely over the right supre-orbitel ridge with abnormal mobility of the underlying home. (The remainder of the scalp will be described with the skull.)

There is clotted blood on the external ears but otherwise the ears, mares, and mouth are essentially unremarkable. The teeth are in excellent repair and there is some pallor of the oral mucous membrane.

Situated on the upper right posterior thorax just above the upper border of the scapule there is a 7 x 4 millimeter eval wound. This wound is measured to be 14 cm, from the tip of the right acronion process and 14 cm. below the tip of the right/mestoid process.

Situated in the low anterior neck at approximately the level of the third end fourth tracheal rings is a 6.5 cm, long transverse wound with widely gaping irregular edges. (The depth and character of these wounds wil he further described below.)

Situated on the anterior chest wall in the nipple line are bilateral 2 cm. long recent transverse surgical incisions into the subcutaneous tissue. The one on the left is situated 11 cm. cepheled to the nipple and the one on the right 3 cm. cephalad to the mipple. There is no hemorrhage or ecchymosis associated with these wounds. A similar clean wound measuring 2 cm, in length is situated on the antero-lateral aspect of the left mid arm. Situated on the antero-lateral aspect of each ankle is a recent 2 cm. transverse incision into the subcutaneous tismic.

There is en old well healed 8 cm, McBurney abdominal incision. Over the lumber spine in the midline is an old, well healed 15 cm, scar. Situated on the upper entero-lateral aspect of the right thigh is an old, well heeled 8 cm. scer.

MISSILE WOUNDS:

with the contract of the contract of the contract of

1. There is a large irregular defect of the scalp and skull on the right involving chiefly the parietal bone but extending somewhat into the temporal and occipital regions. In this region there is an actual absence of scalp and bone producing a defect which measures approximately 13 cm. in greatest diameter.

From the irregular margins of the above scalp defect tears extend in stellate fashion into the more or less intact scalp as follows:

- a. From the right inferior temporo-parietal margin anterior to the right ear to e point slightly above the tragus.
- h. From the anterior peristal margin anteriorly on the forehead to approximately 4 cm. above the right orbitel ridge.
- c. From the left margin of the main defect across the midline entere-laterally for a distance of approximately 8 cm.
 - d. From the same starting point as c. 10 cm. postere-laterally.

Situated in the posterior scalp approximately 2.5 cm. Leterally to the right end alg(x) above the external occipital protuberance is a lacerated wound measuring $15 \times 6 \, \mathrm{cm}$. In the underlying bone is a corresponding wound through the skull which exhibits be welling of the margins of the bone when viewed from the inner espect of the skull.

large shull defect and exuding from it is lecerated beam issue which colors inspection proves to represent the major portion of the right extends hemisphere, at this point it is noted that the fals careful is extensively lecerated beamisphere, ruption of the superfor saggithal simes.

Upon reflecting the scale multiple complete fracture linus are seen to radiate from both the large defect at the vertex and the smaller wound at the occiput. These very greetly in length and direction, the longest maccouring approximately 19 cm. These result in the production of numerous fragments which very in size from a few utilinesters to 10 cm, in greatest diameter.

The complexity of these frectures and the

fragments thus produced tex satisfactory verbel description and are better sporeciated in photographs and rountpenograms which are prepared.

The brein is removed and preserved for

further study following formalin fixation.

Towns are three fragments of shull been which is eggrager coughly approximate the discussions of the large defect described ebove. At one maje of the largest of the discussions of the largest defect described ebove. At one maje of the largest of the fragments is a portion of the perinater of a coughly circuits would presumably of each which exhibits beveling of the outer aspect of the bone and is estimated particles of sately of the outer aspect of the bone and is estimated roward simulate particles of sately and the sately of the contract approximately 7.5 to 3.0 cm. in disserts. Beenginger map of the roward simulate particles of sately made to the sately of the sa

is that described above in the upper right petertary forces. Beneath the skin there is occlymotis of subsutances tiese and musculeture. The missle spath through the facility and musculeture is the skin there is occlymotis of subsutances tiese and musculeture. The missle spath through the facility may be the sailty problet. The wound presumably of early was the observed by Dr. Perry the wound measured "a few millimeters in dismeter", however it was extended as a trachecotomy incision and thus its character is distorted at the time of surroys. Exercet, there is considered as exclusions of the right side of the neck and of the facilities and such as the statement of the trachecotomy wound. The third points of reference in connecting

these two wounds is in the spex (supra-clavicular portion) of the right pleural cavity. In this region there is contusion of the paric' .. pleurs and of the extreme apical portion of the right upper lobe of the lung. In both instances the diameter of contusion and ecchymocis at the point of maximal involvement measures 5 cm. Both the visceral and parietal pleura are intact overlying these areas of traums.

INCISIONS:

The scale wounds are extended in the coronal plane to examine the cranial content and the customary (Y) shaped incision is used to examine the body cavities.

The lungs are of essentially similar ap-

The pericardial cavity is smooth walled

THURACIC CAVITY: The hony cage is unremarkable. The thoracic organs are in their normal positions and relationships and there is no increase in free pleural fluid. The above described area of contusion in the apical portion of the right pleural cavity is noted.

LUKGS:

pearance the right weighing 320 Gm., the left 290 Gm. The lungs are well scrated with smooth elistening pleural surfaces and gray-pink color. A 5 cm. diameter area of purplish red discoloration and increased firmness to palpation is situated in the spicel portion of the right upper lobe. This corresponds to the similar area described in the overlying parietal pleura. Incision in this region reveals recent hemorrhage into pulmonary paranchyma.

HEART:

and contains approximately 10 cc. of strawcolored fluid. The heart is of essentially normal external contour and weighs 350 Gm. The pulmonary artery is opened in situ and no abnormalities are noted. The cardiac chambers contain moderate amounts of postmorten clotted blood. There are no gross abnormalities of the leaflets of any of the cardiac valves. The following are the circumferences of the cardiac valves: sortic 7.5 cm., pulmonic 7 cm., tricuspid 12 cm., mitral 11 cm. The myocardium is firm and reddish brown. The left ventricular myocardium averages 1.2 cm. in thickness, the right ventricular myocardium 0.4 cm. The coronary arteries are dissected and are of normal distribution and smooth walled and elastic throughout.

ABDOMINAL CAVITY:

The abdominal organs are in their normal positions and relationships and there is no increase in free peritoneal fluid. The vermiform appendix is surgically absent and there are a few adhesions joining the region of the cecum to the ventral abdominal wall at the above described old abdominal incisional scar.

SKELETAL SYSTEM:

Aside from the above described skull wounds there are no significant gross skeletal Black and white and color photographs

abnormalities. PHOTOGRAPHY:

depicting significant findings are exposed but not developed. These photographs were placed in the custody of agent Roy H. Kellerman of the U. S. Secret Service, who executed a receipt therefore (attached).

RODINGEROGLAMS:

Roentranorrans are made of the entire body and ately submitted three

fragments of skull bone. These are develor placed in the custody of Agent Roy H. Kellerman of the U. S. Secretary, who executed a receipt therefor (attached)

SUIZMARY:

Based on the above observations it is our coming that the deceased died as a result

of two perforating number wounds inflicted by high velocity projectles fired by a person or persons unknown. The projectles were fired from a point behind and somewhat above the level of the decessed. The observations and available information do not permit a satisfactory estimate as to the sequence of the two wounds.

and to the right of the external occipital protherance. A portion of the projectile traversed the cranical covity in a posterior-anterior direction (see lateral shall ronogenogenes) depositing naines particles along its path. A portion of the projectile nade its emit through the partical boso on the right carrying with it portions of cerebrum, chull and enally. The two wonds of the shall combined with the force of the missile produced extensive fragmentation of the shall in combined with the superior acceptated sinus, and of the right cerebral benighters.

posterior therex above the scapula and treversed the soft tissues of the superior ular and the outs-clavicular portions of the base of the right side of the neck. This inseits produced contusions of the right speak particular plenuts and of the speak portion of the right puper lobe of the lung. The missile contused the strep muscles of the right doe of the neck, damaged the traches and made it ce suft through the ancerior surface of the neck. As far as can be ascertained this missile struck so bows structures in its pack through the body.

tound of the shull produced such extensive damage to the brein as to preclude the possibility of the deceased surviving this injury.

A supplementary report will be submitted following more detailed examination of the brain and of microscopic sections, it is not anticipated that these examinations will materially alter the findings.

J. J. HAMES CDR. MC. USH (497831) "I" Thom to Brandell "I" THORNTON BOSNELL EIR, MC, USE (489878)

PIERRE A. FINCE LT COL, MC, USA (04-043-322)

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